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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION		
09/904,237 07/12/2001		Zilan Shen	INTL-0582-US (P11591)	2116	
7590 01/14/2004			EXAMINER		
Timothy N. Trop TROP, PRUNER & HU, P.C.			SOWARD, IDA M		
8554 KATY FWY, STE. 100			ART UNIT	PAPER NUMBER	
HOUSTON, TX 77024-1805			2822		

DATE MAILED: 01/14/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

					OF
<u> </u>		Application N	o.	pplicant(s)	431
		09/904,237	s	HEN, ZILAN	
•	Office Action Summary	Examiner		rt Unit	
		Ida M Soward	2	822	
	The MAILING DATE of this communication	on appears on the cov	er sheet with the corr	espondence address	
Period fo	• •	·			
THE - External after - If the - If NC - Failu - Any r	ORTENED STATUTORY PERIOD FOR F MAILING DATE OF THIS COMMUNICAT insions of time may be available under the provisions of 37 C SIX (6) MONTHS from the mailing date of this communicative period for reply specified above is less than thirty (30) days to period for reply is specified above, the maximum statutory are to reply within the set or extended period for reply will, by the property of the control of the c	ION. CFR 1.136(a). In no event, ho ion. s, a reply within the statutory n period will apply and will expiry statute, cause the application	owever, may a reply be timely minimum of thirty (30) days wil re SIX (6) MONTHS from the n to become ABANDONED (3	filed Il be considered timely. mailing date of this communicatio 35 U.S.C. § 133).	on.
1)⊠	Responsive to communication(s) filed on	06 October 2003.			
2a)□	This action is FINAL . 2b)⊠	This action is non-fir	nal.		
3)□	Since this application is in condition for a closed in accordance with the practice ur				S
Dispositi	ion of Claims				
4)🖂	Claim(s) 1-25 is/are pending in the applic	cation.			
	4a) Of the above claim(s) 11-17 is/are wit	hdrawn from conside	eration.		
5)	Claim(s) is/are allowed.				
	Claim(s) <u>1-10 and 18-25</u> is/are rejected.				•
7)	Claim(s) is/are objected to.				
8)[]	Claim(s) are subject to restriction	and/or election require	rement.		
Applicati	ion Papers				
9)[The specification is objected to by the Exa	aminer.			
10)	The drawing(s) filed on is/are: a)	☐ accepted or b)☐ o	bjected to by the Exa	aminer.	
	Applicant may not request that any objection to	,	•	` *	
44)	Replacement drawing sheet(s) including the c	·		,	d).
	The oath or declaration is objected to by t	the Examiner. Note th	ne attached Office Ac	tion or form PTO-152.	
-	under 35 U.S.C. §§ 119 and 120				
	Acknowledgment is made of a claim for for All b) Some * c) None of:	oreign priority under	35 U.S.C. § 119(a)-(d	d) or (f).	
a)ı	1. Certified copies of the priority docu	ıments have been re	ceived.		
	2. Certified copies of the priority docu				
	 Copies of the certified copies of the application from the International B 			n this National Stage	
_* \$	See the attached detailed Office action for				
si 3	Acknowledgment is made of a claim for do ince a specific reference was included in t 7 <u>C</u> FR 1.78.	the first sentence of the	he specification or in	an Application Data Sho	
) The translation of the foreign language				,
	Acknowledgment is made of a claim for do eference was included in the first sentence				
Attachmen	t(s)				
	e of References Cited (PTO-892)	4) [O-413) Paper No(s)	
	e of Draftsperson's Patent Drawing Review (PTO-94 mation Disclosure Statement(s) (PTO-1449) Paper N		Notice of Informal Pater Other:	nt Application (PTO-152)	
,		3,2	<u> </u>		

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DETAILED ACTION

This Office Action is in response to the remarks filed April 22, 2003.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3 and 5-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Admitted Prior Art Figures 7-8 in view of Silvestre (US 6,476,563 B2).

Admitted Prior Art Figures 7-8 teach a display 10 comprising: a transparent first electrode (row) 12; a second electrode (column) 14; and an organic light emitting material 16 between the first and second electrodes. However, Admitted Prior Art Figures 7-8 fail to teach a fuse between an electrode and light emitting material. Silvestre teaches a display with a fuse 10 between an electrode and a light emitting material 11 (Figures 1-2, cols. 2-3, lines 16-67 and 1-20, respectively). Also, it is within the level of ordinary skill to interchange columns with rows and rows with columns. Since Admitted Prior Art Figures 7-8 and Silvestre are both from the same field of endeavor (fuse structures), the purpose disclosed by Silvestre would have been recognized in the pertinent art of Admitted Prior Art Figures 7-8. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was

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made to modify the OLED of Admitted Prior Art Figures 7-8 with the fuse as taught by Silvestre to eliminate dark spots (abstract).

Claims 4, 7-9, 18-22 and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Admitted Prior Art Figures 7-8 and Silvestre (US 6,476,563 B2) as applied to claims 1-3 and 5-6 above, and further in view of Marr et al. (US 2002/0005564 A1).

Admitted Prior Art Figures 7-8 and Silvestre teach all mentioned in the rejection above. Silvestre further teaches the fuse 10 including a contact that contacts the organic light emitting material 11, the fuse including a fusible element between the contact and the non-transparent electrode (Figures 1-2, cols. 2-3, lines 16-67 and 1-20, respectively). However, Admitted Prior Art Figures 7-8 and Silvestre fail to teach a fuse formed as a reduced width section of a non-transparent electrode. Marr et al. teach a fuse 20 formed as a reduced width section of a non-transparent electrode 24 (Figure 1A, pages 3-4, paragraphs [0040]-[0046]). Marr et al. further teach the fuse 20 extending transversely from a first electrode (Figures 1A-1B) and electrodes 224 & 226 deposited on a transparent sheet 212 (page 5, paragraphs [0058]-[0059]). Since Admitted Prior Art Figures 7-8, Silvestre and Marr et al. are from the same field of endeavor (fuse structures), the purpose disclosed by Marr et al. would have been recognized in the pertinent art of Admitted Prior Art Figures 7-8 and Silvestre. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the OLED of Admitted Prior Art Figures 7-8 and the

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fuse of Silvestre with the reduced width section as taught by Marr et al. to provide the simplest and most compact means of programming a semiconductor device (page 1, paragraph [0008]).

Claims 10 and 23-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Prior Art Figures 7-8, Silvestre (US 6,476,563 B2) and Marr et al. (US 2002/0005564 A1) as applied to claims 1-9, 18-22 and 25 above, and further in view of Hilpert (5,859,772).

Admitted Prior Art Figures 7-8, Silvestre and Marr et al. teach all mentioned in the rejection above. Marr et al. further teach the fuse formed of the same material as the electrode (page 4, paragraphs [0041] and [0045]). However, Admitted Prior Art Figures 7-8, Silvestre, and Marr et al. fail to teach a fuse formed of a material that fails by electron migration when the current density through the fuse exceeds a limit. Hilpert teaches a fuse formed of a material that fails by electron migration when the current density through the fuse exceeds a limit (Abstract). Since Admitted Prior Art Figures 7-8, Silvestre, Marr et al. and Hilpert are from the same field of endeavor (fuse structures), the purpose disclosed by Hilpert would have been recognized in the pertinent art of Admitted Prior Art Figures 7-8, Silvestre and Marr et al. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the OLED of Admitted Prior Art Figures 7-8, the fuse of Silvestre, the reduced width section of Marr et al. with the failing fuse as taught by Hilpert to interrupt a short circuit current (abstract).

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Response to Arguments

Applicant's arguments with respect to claims 1-10 and 18-25 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

The following patents are cited to further show the state of the art with respect to fuse structures:

Taussig et al. (US 2002/0126526 A1)

Bajor (4,670,970).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ida M Soward whose telephone number is 571-272-1845. The examiner can normally be reached on Monday - Thursday, 6:30 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amir Zarabian can be reached on 571-272-1852.

ims January 12, 2004

And the second